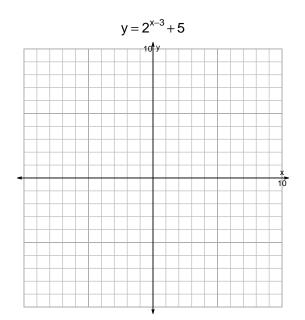
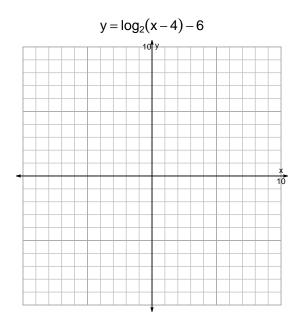
s18quiz: EXP LOG (QUIZ v230)

1. Graph $y=2^{x-3}+5$ and $y=\log_2(x-4)-6$ on the grids below. Also, draw any asymptotes with dotted lines.





2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$13 = \left(\frac{5}{4}\right) \cdot 2^{-3t/7}$$

3. An exponential function $f(x) = 0.0305 \cdot e^{-1.35x}$ is graphed below on a semi-log plot.



a. Using the plot above, evaluate f(0.9).

- b. Express $f^{-1}(x)$, the inverse of f.
- c. Using the plot above, evaluate $f^{-1}(0.6)$.